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<b>TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT</b> (Under 37 CFR 1.97(b) or 1.97(c))			Docket No. SBI-073	
In Re Application Of: <b>Thorne et al.</b>				
Serial No. 09/746,921	Filing Date 12/21/2000	Examiner Guttman, H.J.	Group Art Unit 51	
Title: <b>SYNTHETIC ALTERNATIVES TO DEMINERALIZED BONE MATRIX ADDITIVES</b>			RECEIVED SEP 11 2002 TECH CENTER 1600/2900	
Address to Assistant Commissioner for Patents Washington, D.C. 20231				
<b>37 CFR 1.97(b)</b>				
1. <input type="checkbox"/> The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.				
<b>37 CFR 1.97(c)</b>				
2. <input checked="" type="checkbox"/> The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:				
<input type="checkbox"/> the statement specified in 37 CFR 1.97(e);				
OR				
<input checked="" type="checkbox"/> the fee set forth in 37 CFR 1.17(p).				

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<b>SYNTHETIC ALTERNATIVES TO DEMINERALIZED BONE MATRIX ADDITIVES</b>			
<b>Payment of Fee</b> (Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))			
<input checked="" type="checkbox"/> A check in the amount of <b>\$180.00</b> is attached. <input checked="" type="checkbox"/> The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. <b>09-0473</b> as described below. A duplicate copy of this sheet is enclosed.			
<input type="checkbox"/> Charge the amount of <input checked="" type="checkbox"/> Credit any overpayment. <input checked="" type="checkbox"/> Charge any additional fee required.			
<b>Certificate of Transmission by Facsimile*</b> I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (F		<b>Certificate of Mailing by First Class Mail</b> I certify that this document and fee is being deposited with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.	
_____ (Date)		_____ Signature of Person Mailing Correspondence	
_____ Signature		Amy Lewis Typed or Printed Name of Person Mailing Certificate	
_____ Typed or Printed Name of Person Signing Certificate		_____ Typed or Printed Name of Person Mailing Certificate	
*This certificate may only be used if paying by deposit account.			
Timothy L. Scott Reg. No. 37,931 Centerpulse USA Inc. 3 East Greenway Plaza, Suite 1600 Houston, Texas 77046  Phone: 713/561-6374 Fax: 713/561-6380  CC:		Dated: <b>08/28/02</b>	

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<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>	Docket Number (Optional) <b>SBI-073</b>	Application Number <b>09-746,921</b>
	Applicant(s) <b>Thorne, et al.</b>	
	Filing Date <b>12/22/2000</b>	Group Art Unit <b>1651</b>

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE <small>(IF APPROPRIATE)</small>
		RE35,694	12/16/1997	Seyedin et al.	514	2	
		3,919,723	11/18/1975	Heimke et al.	3	1.9	
		3,968,567	7/13/1976	Nevins	32	15	
		4,146,936	04/03/1979	Aoyagi et al.	3	1.91	
		4,192,021	03/11/1980	Deibig et al.	3	1.9	
		4,202,055	05/13/1980	Reiner et al.	3	1.91	
		4,237,559	12/09/1980	Borom	3	1.9	
		4,356,572	11/02/1982	Guillemin et al.	3	1.9	
		4,394,370	7/19/1983	Jeffries	424	15	
		4,412,947	11/01/1983	Cioca	260	123.7	
		4,429,691	02/07/1984	Niwa et al.	128	92	

**FOREIGN PATENT DOCUMENTS**

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	EP 0271668	18.12.1991	EP	A61K	35/32		✓
	EP 0522569	13.01.1993	EP	A61K	47/30	✓	
	EP 0588727	08.09.1993	EP	A61L	24/00		✓
	EP 0605799	13.07.1993	EP	A61F	2/28		✓
	EP 0616814	28.09.1993	EP	A61L	27/00	✓	

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*


<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
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# INFORMATION DISCLOSURE CITATION

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ATTY DOCKET NO.  
SBI-073

SERIAL NO  
09/746,921

Thorne et al.

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12/22/2000

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1651

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,497,075	02/05/1985	Niwa et al.	3	1.9	
	4,609,551	09/02/1986	Caplan et al.	424	95	
	4,619,655	10/28/1986	Hanker et al.	623	1	
	4,623,553	11/18/1986	Ries et al.	427	2	
	4,642,120	02/10/1987	Nevo et al.	623	1	
	4,698,326	10/06/1987	Sauk et al.	514	7	
	4,774,227	09/27/1988	Piez et al.	514	2	
	4,789,663	12/06/1988	Wallace et al.	514	21	
	4,795,467	01/03/1989	Piez et al.	623	16	
	4,843,063	06/27/1989	Seyedin et al.	514	2	
	4,843,112	06/27/1989	Gerhart et al.	523	114	

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	EP 0623031	09.11.1994	EP	A61L	27/00	✓	
	EP 0719529	03.07.1996	EP	A61F	2/28	✓	
	EP 0747067	11.12.1996	EP	A61L	27/00	✓	
	EP 0754699	22.01.1997	EP	C07G	17/00	✓	
	EP 0901795	17.03.99	EP	A61L	15/32	✓	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


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**1651**

## **U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,863,732	09/05/1989	Nathan et al.	424	95	
	4,863,856	09/05/1989	Dean Jr et al.	435	68	
	4,888,366	12/19/1989	Chu et al.	523	115	
	4,919,670	04/24/1990	Dale et al.	623	19	
	4,997,446	03/05/1991	Thoma	623	16	
	5,001,169	03/19/1991	Nathan et al.	523	113	
	5,011,691	04/30/1991	Oppermann et al.	424	423	
	5,024,841	06/18/1991	Chu et al.	424	422	
	5,028,695	07/02/1991	Eckmayer et al.	530	356	
	5,085,861	02/04/1992	Gerhart et al.	424	78.17	
	5,108,753	04/28/1992	Kuberasampath et al.	424	422	

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	EP 1127581	29.08.2001	EP	A61L	27/36	✓	
	WO 87/07495	17.12.1987	PCT	A61F	2/00	✓	
	WO 90/00892	08.02.1990	PCT	A61K	6/033	✓	
	WO 92/00109	09.01.1992	PCT	A61L	25/00	✓	
	WO 93/05823	01.04.1993	PCT	A61L	27/0	✓	

## **OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)


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	<b>Thorne et al.</b>	
	FILING <b>12/22/2000</b>	GROUP <b>1651</b>

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,118,667	6/02/1992	Adams et al.	514	12	
	5,137,534	08/11/1992	Sumita	623	16	
	5,204,382	04/20/1993	Wallace et al	523	115	
	5,208,219	05/04/1993	Ogawa et al.	514	12	
	5,236,704	08/17/1993	Fujioka et al.	424	85.1	
	5,262,166	11/16/1993	Liu et al.	424	423	
	5,274,078	12/28/1993	Wada et al.	530	356	
	5,306,303	04/26/1994	Lynch	623	16	
	5,354,557	10/11/1994	Oppermann et al.	424	423	
	5,366,508	11/22/1994	Brekke	623	16	
	5,393,739	02/28/1995	Bentz et al.	514	12	

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO
WO 94/20064	15.09.1994	PCT	A61K	6/033	✓	
WO 96/10374	11.04.1996	PCT	A61F	2/02	✓	
WO 96/10428	11.04.1996	PCT	A61L	27/00	✓	
WO 96/39203	12.12.1996	PCT	A61L	27/00	✓	
WO 96/40297	19/12/1996	PCT	A61L	2/08	✓	

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*


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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,417,975	05/23/1995	Lussi et al.	424	423	
	5,425,770	06/20/1995	Piez et al.	623	16	
	5,433,751	07/18/1995	Christel et al.	623	16	
	5,443,531	08/22/1995	Ripamonti	623	66	
	5,496,552	03/05/1996	Kuberasampath	424	423	
	5,531,791	07/02/1996	Wolfenbarger Jr.	623	16	
	5,532,217	07/02/1996	Silver et al.	514	21	
	5,547,378	08/20/1996	Linkow	433	173	
	5,552,454	09/03/1996	Kretschmann et al.	523	113	
	5,599,552	02/04/1997	Dunn et al.	424	423	
	5,639,402	06/17/1997	Barlow et al.	264	6	

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 98/17330	30.04.1998	PCT	A61L	27/00	✓	
	WO 98/30141	16.07.1998	PCT	A61B	1/7	✓	
	WO 98/35653	20.08.1998	PCT	A61K	9/14	✓	
	WO 98/51354	19.11.1998	PCT	A61L	27/00	✓	
	WO 99/15211	01.04.1999	PCT	A61L	27/00	✓	

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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	TECHNICAL CENTER 1600 2900	RECEIVED SEP 11 2002
	5,769,897	6/23/1998	Harle	623	16		
	5,776,193	07/07/1998	Kwan et al.	623	16		
	5,811,094	09/22/1998	Caplan et al.	424	63.7		
	5,814,604	09/29/1998	Oppermann et al.	514	12		
	5,830,340	11/03/1998	Iljitch et al.	204	471		
	5,837,752	11/17/1998	Shastri et al.	523	116		
	5,904,717	05/18/1999	Brekke et al.	623	16		
	5,904,718	05/18/1999	Jefferies	623	16		
	5,910,492	06/08/1999	Hoshino et al.	514	114		
	5,916,553	06/29/1999	Schmidt	424	85.1		
	5,932,207	08/03/1999	Schmidt	424	85.1		

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 01/32072	10.05.2001	PCT	A61B		✓	
	WO 01/41821	14.06.2001	PCT	A61L	24/00	✓	
	WO 01/41822	14.06.2001	PCT	A61L	24/00	✓	
	WO 01/66044	13.09.2001	PCT	A61F	2/28	✓	
	WO 01/74410	11.10.2001	PCT	A61L	27/00	✓	

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	5,935,594	08/10/1999	Ringeisen	424	424	
	5,952,010	09/14/1999	Constantz	424	424	
	5,955,529	09/21/1999	Imai et al.	524	524	
	5,958,430	09/28/1999	Campbell et al.	424	424	
	5,958,441	09/28/1999	Oppermann et al.	424	424	
	5,997,895	12/07/1999	Narotam et al.	424	423	
	6,018,095	01/25/2000	Lerch et al.	623	16	
	6,033,438	03/07/2000	Bianchi et al.	623	17	
	6,071,982	06/06/2000	Wise et al.	523	113	
	6,118,043	09/12/2000	Nies et al.	623	16	
	6,132,463	10/17/2000	Lee et al.	623	16	

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 02/024107	28.03.2002	PCT	A61L	27/20	✓	
	WO 02/07961	31.01.2002	PCT	B32B	5/18	✓	
	WO 02/11781	14.02.2002	PCT	A61L	27/12	✓	
	WO 02/21222	14.03.2002	PCT	G05B	13/00	✓	
	WO 02/22045	21.03.02	PCT	A61F	2/00	✓	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,136,029	10/24/2000	Johnson et al.	623	16	
	6,139,578	10/31/2000	Lee et al.	623	16.11	
	6,165,487	12/26/2000	Ashkar et al.	424	426	
	6,180,605	01/30/2001	Chen et al.	514	12	
	6,180,606	01/30/2001	Chen et al.	514	12	
	6,183,515	02/06/2001	Barlow et al.	623	16.11	
	6,187,047	02/13/2001	Kwan et al.	623	16.11	
	6,187,329	02/13/2001	Agrawal et al.	424	426	
	6,214,049	04/10/2001	Gayer et al.	623	16.11	
	6,214,368	04/10/2001	Lee et al.	424	423	
	6,261,565	07/17/2001	Empie et al.	424	195.1	

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 02/34113	02.05.2002	PCT	A61B		✓	
	WO 02/34116	02.05.2002	PCT	A61B		✓	
	WO 02/40073	23.05.2002	PCT	A61L	27/32	✓	
	WO 02/40963	23.05.2002	PCT	G01N		✓	
	JP1076861	22.03.1989	Japan	A61L	27/00	✓	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


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	6,264,701	07/24/2001	Brekke	623	23.6	
	6,277,151	08/21/2001	Lee et al.	623	23.6	
	6,280,191	08/28/2001	Gordon	433	173	
	6,287,341	09/11/2001	Lee et al.	623	16,11	
	6,294,187	09/25/2001	Boyce et al.	424	422	
	6,296,667	10/02/2001	Johnson et al.	623	23.61	
	6,297,213	10/02/2001	Oppermann et al.	514	12	
	6,299,650	10/09/2001	Van Blitterswijk	623	23.63	
	6,300,315	10/09/2001	Liu	514	21	
	6,326,018	12/04/2001	Gertzman et al.	424	423	
	6,376,211	4/23/2002	Little II et al.	435	21	

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	JP11164880	22.06.1999	Japan	A61L	27/00	✓	
	JP1121059	12.05.1989	Japan	A61L	27/00	✓	
	JP1250264	05.10.1989	Japan	A61L	27/00	✓	
	JP6100410	12.04.1994	Japan	A61K	6/06	✓	
	JP63066106	24.03.1988	Japan	A61K	6/02	✓	

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Docket Number (Optional)

SBI-073

Application Number

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Applicant(s)

Thorne, et al.

Filing Date

12/21/2000

Group Art Unit

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,384,196	05/07/2002	Weis et al.	530	356	
		6,384,197	05/07/2002	Weis et al.	530	356	
		4,668,295	05/26/1987	Bajpai	106	85	
		5,123,923	06/23/1992	Pommier et al.	623	16	
		5,152,836	10/06/1992	Hirano et al.	106	690	
		5,426,769	06/20/1995	Snyders, Jr.	623	16	
		6,346,123	02/12/2002	McKay	623	17.11	

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## FOREIGN PATENT DOCUMENTS

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							YES	NO

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